



GRANIT

SYN SHPD



DESCRIPTION

GRANIT SYN SHPD SAE 15W-40 is a high quality, super high performance diesel engine oil, approved by major global vehicle manufacturers for use in their latest Euro III to Euro V engines. Due to its TriboACT®-enhanced formula, GRANIT SYN SHPD SAE 15W-40 is the reliable backbone of many vehicle fleets, boosting ACEA E7-12 and API CH-4 and CI-4 performance approvals, providing wear protection and engine performance as standard and safeguarding the turbocharger's optimal operation by minimizing deposits formation.

APPLICATIONS

Cyclon GRANIT SYN SHPD SAE 15W-40 is suitable for all types of both on-road & off-road heavy duty diesel engines that require performance levels as defined by ACEA E7 and API CI-4 specs, providing exceptional performance where exhaust after-treatment devices (excl. DPF) are in place. It boosts Mercedes Benz Approval-228.3 amongst its list of credentials, demonstrating its ability to perform in some of the most advanced commercial vehicles on the road. It is also approved against MAN 3275-1 and Volvo VDS-3.

CHARACTERISTICS-BENEFITS

CHARACTERISTICS	BENEFITS
TriboACT® Formula engineered.	High levels of wear protection; enhanced turbocharger protection and deposit control.
Superior engine cleanliness.	Maintaining clean oil galleries and ensuring the oil can flow freely to key areas of the engine.
Enhanced alkalinity retention.	Full biofuel compatibility; outstanding resistance to corrosion; protection against piston ring sticking.
Low volatility properties.	Reduced oil consumption; increased viscosity retention.

PHYSICAL-CHEMICAL CHARACTERISTICS

GRANIT SYN SHPD	METHOD	SAE 15W-40
Density at 15°C, g/cm ³	ASTM D1298	0,878
Dynamic viscosity, °C /cP	ASTM D5293	-20/5800
Viscosity, Kinematic (cSt) 100°C	ASTM D445	14,5
Viscosity, Kinematic (cSt) 40°C	ASTM D445	105,6
Viscosity index	ASTM D2270	141
Flash point, COC, °C	ASTM D92	230
Pour point, °C	ASTM D97	-32
TBN, mgKOH/g	ASTM D2896	10,4

The above mentioned characteristics represent mean values.

SPECIFICATIONS

ACEA E7, E5, E3, B4, B3, A3; API CI-4, CH-4, CG-4, SL; MB 228.3; Global DHD-1; MAN M3275-1; MTU Cat. 2; Volvo VDS-3; Renault Trucks RLD-2; Mack EO-M Plus, EO-N; Cummins CES 20076, 20077, 20078; DAF SHPD; Caterpillar ECF-2, ECF-1a; ZF TE-ML 07C; Deutz DQC III-10; Detroit Diesel DDC 93K215; IVECO 18-1804 T2 E3
Level: Allison C4

APPROVALS

API CI-4, SL; MAN M3275-1; Volvo VDS-3; Renault Trucks RLD-2; Mack EO-N